

INTERNATIONAL SEARCH REPORT

Internat Application No
PCT/ 3/00793

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G05B13/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 798 426 A (BRISTOL E) 19 March 1974 (1974-03-19) abstract column 1, line 10 - line 26 column 1, line 47 - line 59 column 2, line 15 - line 59 column 6, line 3 - column 7, line 37 column 8, line 22 - line 50 column 9, line 36 - column 10, line 6 claims 1-33 figures 1-6	1,2,6,7
A	the whole document --- -/--	3-5,8-10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- * & * document member of the same patent family

Date of the actual completion of the international search

14 July 2003

Date of mailing of the international search report

25/07/2003

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INTERNATIONAL SEARCH REPORT

Internal Application No
PCT/D /00793

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 587 896 A (HANSEN PETER D ET AL) 24 December 1996 (1996-12-24) abstract column 1, line 1 -column 8, line 7 figures 1,2	1,2,6,7
A	the whole document	3-5,8-10
X	US 4 349 868 A (BROWN TROY L) 14 September 1982 (1982-09-14) abstract column 1, line 1 -column 2, line 22 column 7, line 47 -column 8, line 43 figures 2,5,6	1,2,6,7
A	the whole document	3-5,8-10
X	US 5 506 768 A (SEEM JOHN E ET AL) 9 April 1996 (1996-04-09) abstract column 1, line 65 -column 2, line 25 column 2, line 49 - line 54 column 3, line 23 - line 30 column 3, line 61 - line 67 column 4, line 34 -column 5, line 12 figures 1,4	1,2,6,7
A	the whole document	3-5,8-10
Y	DE 15 88 341 A (IBM) 9 April 1970 (1970-04-09) page 3, line 21 -page 5, line 7 claims 1,2	1,2,6,7
Y	DE 36 36 512 A (WEISS DIETER) 28 April 1988 (1988-04-28) abstract column 2, line 10 -column 3, line 44 column 6, line 44 - line 68 figures 1-3 claims 1-9	1,2,6,7

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/D/00793

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3798426	A	19-03-1974	NONE	
US 5587896	A	24-12-1996	US 5406474 A US 5394322 A	11-04-1995 28-02-1995
US 4349868	A	14-09-1982	JP 1378718 C JP 57039406 A JP 61048721 B	28-05-1987 04-03-1982 25-10-1986
US 5506768	A	09-04-1996	US 5355305 A US 5568377 A AU 660906 B2 AU 5725794 A CA 2125694 A1 DE 69311314 D1 DE 69311314 T2 EP 0628181 A1 ES 2103566 T3 JP 7502850 T JP 3370673 B2 MX 9306803 A1 WO 9410613 A1	11-10-1994 22-10-1996 06-07-1995 24-05-1994 11-05-1994 10-07-1997 09-10-1997 14-12-1994 16-09-1997 23-03-1995 27-01-2003 29-04-1994 11-05-1994
DE 1588341	A	09-04-1970	DE 1588341 A1 FR 1526562 A GB 1135508 A US 3458821 A	09-04-1970 28-10-1968 04-12-1968 29-07-1969
DE 3636512	A	28-04-1988	DE 3636512 A1	28-04-1988

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